AMENDMENTS TO THE CLAIMS

1. (Currently amended) A semiconductor device comprising:

a high-breakdown-voltage regulator configured to operate at a high input voltage;

a reference voltage generating circuit structured as a low-breakdown-voltage component and configured to receive an output voltage from the high-breakdown-voltage regulator to generate a reference voltage;

a differential amplifier circuit structured as another low-breakdown-voltage component and configured to receive the output voltage from the high-breakdown-voltage regulator and the reference voltage from the reference voltage generating circuit to produce a drive voltage;

an output driver structured as a high-breakdown-voltage component and configured to operated based on the drive voltage, wherein the output driver is a MOS transistor;

a diode inserted between a gate and a source of the MOS transistor, the diode having a reverse breakdown voltage lower than an oxide breakdown voltage of the MOS transistor;

a constant current inverter inserted between a power supply line and the output driver; and resistors connected in series to the output driver to divide an output voltage of the output driver and feed the divided voltage back to the differential amplifier circuit.

- 2. (Original) The semiconductor device of claim 1, wherein the high-breakdown-voltage output driver and the low-breakdown-voltage components are MDS transistors with gate oxide films having a first thickness.
- 3. (Original) The semiconductor device of claim 2, wherein the high-breakdown-voltage regulator is structured by a high-breakdown-voltage MOS transistor with a gate oxide film having a second thickness greater than the first thickness.
- 4. (Currently amended) The semiconductor device of claim 1, wherein the output driver is a P-channel MOS transistor, and the semiconductor device further comprising a diode inserted between

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the gate and the source of the P-channel MOS transistor-and-having has a reverse breakdown voltage lower than an oxide breakdown voltage of the P-channel MDS transistor.

- 5. (Currently amended) The semiconductor device of claim 1, wherein the output driver is an N-channel MOS transistor, and the-semiconductor device further comprising a diode is inserted between the gate and the source of the N-channel MOS transistor or between the gate and the ground and having has a reverse breakdown voltage lower than an oxide breakdown voltage of the N-channel MOS transistor.
- 6. (Currently amended) The semiconductor device of claim 1, wherein the output driver is a P-channel MOS transistor, the semiconductor device further comprising a constant current inverter inserted between the differential amplifier circuit and the output driver, the constant current inverter comprising:

a constant current circuit connected between a power supply line and the output driver; and a MOS transistor controlled by the drive voltage output from the differential amplifier circuit.

- 7. (Currently amended) The semiconductor device of claim 1, wherein the output driver is a P-channel MOS transistor, the semiconductor device further comprising a constant current inverter inserted between a power supply line and the output driver, the constant current inverter comprising:
- a first N-channel MOS transistor to which the reference voltage generated by the reference voltage generator is supplied;
- a first P-channel MOS transistor connected in series to the first N-channel MOS transistor to produce a constant current;
- a second P-channel MOS transistor defining a constant current circuit under a current mirror configuration; and
- a second N-channel MOS transistor to which the drive voltage output from the differential amplifier circuit is supplied.
- 8. (Currently amended) A semiconductor device comprising:

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a reference voltage generating circuit configured to generate a reference voltage;

a differential amplifier circuit configured to receive the reference voltage and generates generate a drive voltage;

an output driver configured to operate based on the drive voltage, wherein the output driver is a MOS transistor;

a diode inserted between a gate and a source of the MOS transistor, the diode having a reverse breakdown voltage lower than an oxide breakdown voltage of the MOS transistor;

resistors connected in series to the output driver to divide an output voltage of the output driver and feed the divided voltage back to the differential amplifier circuit; and

a constant current circuit inserted between a power supply-line and a combination of the reference voltage generating circuit and the differential amplifier circuit.

- 9. (Original) The semiconductor device of claim 8, wherein the constant current circuit is structure by a depression-mode N-channel or P-channel MOS transistor.
- 10. (Original) The semiconductor device of claim 8, wherein the constant current circuit is structured by an enhancement-mode N-channel or P-channel MOS transistor.
- 11. (Original) The semiconductor device of claim 8, wherein the constant current circuit is structure by multiple MOS transistors connected in series to form a multi-stage constant current circuit.